

GROUP II-A

Map No.	Field No.	Location		Data 1/ Quad	Approx. size 2/ S,T,X	Rock name	Mineralogy		Serpentini- zation 3/ (percent)	Other significant alteration	Textural features		Adjacent country rock	Structural data	Remarks
		Lat (N) Long (W)	Lat (N) Long (W)				Primary	Secondary							
3	65APr2017 70APr2376 to 70APr2380	D-4 64°21'55" 142°57'	S,T,X	Large	Dominantly serpentized dunite and harzburgite	Olivine (Fogo-ps) 10-70%; orthopyroxene (enstatite) 0-50%; clinopyroxene 0-10%; augite 0-12%; chromite <1%	Serpentine (lizardite and clinochrysotile) 0-9%; magnetite <3%; olivine 0-10%; actinolite 0-15%; talc <3%; brucite <1%	Variable 0-100%; most rock was at least 25% serpentized; talc increased toward the eastern ends of the limbs	Quartz-schists with green stain, often 1-1.5 mm thick; rock throughout the mass; local silt-fiber developed on surfaces. Orthopyroxene commonly occurs as segregations in western part of body; locally replaced by talc and/or actinolite in eastern part of body. Schiller structure along original cleavage; exfoliating reddish-brown mineral is found in basitite. Clinopyroxene is found only in basitite. Clinopyroxene is found only in basitite. A lens consisting of 90% augite, chromite is scarce but occurs as large grains up to 1.5 mm across	Native serpentinized harzburgite and dunite; schistose veins with cross-fibers; talc replacing orthopyroxene in N.E. part of mass. "Talc" is present in some areas; talc replaced by actinolite in eastern part of body. Schiller structure along original cleavage; exfoliating reddish-brown mineral is found in basitite. Clinopyroxene is found only in basitite. A lens consisting of 90% augite, chromite is scarce but occurs as large grains up to 1.5 mm across	Argillite, graywacke, quartzite	Faulted; has tectonic inclusions of diabase	Additional sample nos.: 70ANr30, 70ANr31, 70AHr77, 70AFr241, 66APr10, 66APr10 to 66APr12, 66APr12, 66APr13, 66APr13 to 66APr15, 66APr159, 71APr4, 71APr102, 71APr103, 71APr105, 71APr111, 71APr4 to 71APr6		

26	70APr2333 to 70APr2349	C-1 64°43' 141°16'	S,T,X	Large	Serpentized harzburgite	Olivine (Fogo-ps) 10-90%; orthopyroxene (enstatite) 5-35%; clinopyroxene (augite) >1%; chromite <1%	Serpentine (antigorite); locally later chrysotile veinlets 5-30%; magnetite 0-5%; olivine 0-10%; actinolite 0-15%; talc <3%; chlorite <1%; chromite <1%; olivine 1%	Variable 5-100%; most rock was at least 25% serpentized; lithology completely serpentized	Saussuritized northern contact zone	Massive serpentized harzburgite; minor veinlets of late chrysotile with local cross-fibers near southern border. Olivine commonly granular; orthopyroxene commonly deformed; clinopyroxene occurs sporadically but never more than 5%. Olivine is common; talc, chlorite, actinolite, olivine, chromite, pyrite occur, commonly with basitite. Late, thin, cross-cutting veins of talc are common, locally showing traces of cross-fiber development. Serpentine fibers up to 100 mm long are found locally. Much antigorite has been altered to talc and magnesite; local concentrations of coarse green chlorite and magnesite	Greenstone, quartzite, quartz-mica schist	Faulted; has inclusions of country rock near boundaries	Additional sample nos.: 66APr407 to 66APr410, 66APr533, 66APr806, 66APr810 to 66APr812, 66APr103, 66APr103 to 66APr12, 66APr12, 66APr13, 66APr13 to 66APr15, 66APr159, 71APr4, 71APr102, 71APr103, 71APr105, 71APr111, 71APr4 to 71APr6
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73	64APr345 64APr355 65APr29 65APr80 65APr801 65APr805	A-1 64°30'00" 141°01'30"	T,V	Large	Serpentized harzburgite	Olivine 1%	Serpentine (antigorite) 0-90%; talc 0-5%; chlorite 0-6%; magnetite 0-5%; olivine 0-10%	9-100%	Antigorite is altered to talc and magnesite with local development of chlorite and actinolite	Massive, fine-grained, much deformation by squeezing and shearing; moderately fine fibrous antigorite has replaced original minerals. Large magnetite grains up to 4 mm across occur, commonly with basitite. Late, thin, cross-cutting veins of talc are common, locally showing traces of cross-fiber development. Serpentine lenses up to 100 mm long are found locally. Much antigorite has been altered to talc and magnesite; local concentrations of coarse green chlorite and magnesite	Quartzite, quartz-mica schist, green schist		
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2	70APr2638	D-5 64°59'15" 143°16'02"	S,T,X	Small	Serpentized harzburgite or dunite	Olivine 10%; orthopyroxene 5%	Serpentine (lizardite and chrysotile) 0-5%; actinolite 5%; chlorite <1%	75	Talc and actinolite are altered from the pyroxene	Lumpy weathered surface from resistant orthopyroxene. Serpentine after olivine has mesh texture, after orthopyroxene is basitite	Granitic rock		
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4	71APr29 71APr30	D-4 64°55'20" 142°45'00"	S,T	Small	Serpentized harzburgite	Olivine 45%; altered orthopyroxene	Serpentine 17%; actinolite 20%; talc 10%; magnetite 3%; chlorite 5%	30			Glacial till covers bedrock		
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5	71APr124 71APr125	D-4 64°53'50" 142°35'10"	S,T	Small	Serpentized dunite	Olivine 0-40%	Actinolite 0-40%; serpentine 10-50%; talc 0-17%; magnetite <1%	5 to 100		Massive serpentinite with some cross-fiber. Serpentine replaces olivine along fractures. Structure obliterated where fine-grained serpentinite replaced the original minerals. Some long, stiff, fibrous serpentinite	Quartzite		
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6	71APr117 71APr161	D-4 64°53'45" 142°32'30"	S,T	Small	Serpentized dunite	Olivine 7-75%	Actinolite 10-70%; serpentine 10-25%; chlorite 0-10%; magnetite <1%; talc 0-10%	25-90	Talc and actinolite are altered from pyroxene	Massive serpentized ultramafic with some cross-fiber	Hornfels and granitic rock		
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18	68AGe301	B-3 64°54'15" 142°11'45"	S,T,X	Small	Serpentized peridotite						Black quartz-graphite phyllite		
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57	66APr1086 67APr54	B-1 64°29'05" 141°12'10"	S,X	Small	Serpentized dunite	Olivine 10%	Serpentine (antigorite) 0-5%; actinolite 10%; talc 5%; local sulfide crystals, probably pyrite	90		Serpentine is fine-grained; actinolite and talc are locally concentrated; coarse actinolite is fibrous but hard	Greenstone near Liberty Fork		
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79	70APr913 70APr915	B-3 64°26'00" 142°06'15"	S,T,X	Small	Serpentized dunite and serpentinite	Olivine 10-20%	Serpentine (lizardite and chrysotile) 50+; actinolite 15-20%; talc 10-15%; magnetite 3%; magnesite 1%	30-100		Olivine grains are exceptionally large, 15 mm x 2 mm wide, and are randomly oriented. Serpentine has mesh texture after olivine. Talc increases in abundance with serpentinite; actinolite decreases in abundance with increase in talc. Locally, actinolite crystals in serpentinite	Quartzite, quartz-mica schist, marble		
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84	70APr2352	B-5 64°27'58" 142°03'30"	S,T,X	Small	Serpentized harzburgite	Olivine 10%; orthopyroxene <5%	Serpentine (lizardite + chrysotile) 45%; actinolite 40%; talc 0-20%; magnetite 3%; brucite
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